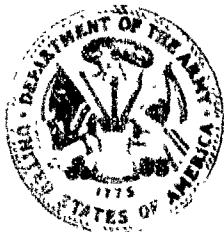


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DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1984
SUBMITTED TO CONGRESS

JANUARY 1983



AIRCRAFT

PROCUREMENT,		PROGRAMS,	
AIRCRAFT		MISSILES	
WEAPONS & TRACKED COMBAT VEHICLES			
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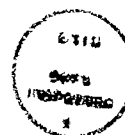
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1. REPORT NUMBER	2. GOVT ACCESSION NO. AD 1126575	3. RECIPIENT'S CATALOG NUMBER
4. AUTHOR(s) Sec. Cover		5. TYPE OF REPORT & PERIOD COVERED Army Procurement Budget Justification, FY 1984
6. PERFORMING ORG. REPORT NUMBER		7. CONTRACT OR GRANT NUMBER(s)
8. PERFORMING ORGANIZATION NAME AND ADDRESS HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-PPP-B) Washington, DC 20310		9. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
10. CONTROLLING OFFICE NAME AND ADDRESS HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-AOA-S) Washington, DC 20310		11. REPORT DATE January 1983
12. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		13. NUMBER OF PAGES 249 (including all parts)
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Army Procurement Programs Budget Justification Book covering Aircraft, Missiles, Weapons and Tracked Combat Vehicles, Ammunition and Other Procurement, Army Appropriations programs submitted by the Army to Congress January 1983 for Fiscal Year 1984.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, provides backup data for the Army Budget submission for FY 1984. Included are Summaries of Requirements, Program and Financing Statements and Selected Data Sheets. (These volumes are unclas- sified).		

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DEPARTMENT OF THE ARMY
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DACA-CAW (2B685)	1	PAA/OPA (1 ea)		5001 Eisenhower Avenue	
DACS-DPZ (3C718)	5	DAMA-CSS (3D422)	4	Alexandria, VA 22333	
DACS-FM (1A871)	1	OPA only			
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DEPARTMENT OF THE ARMY
AIRCRAFT PROCUREMENT, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1984, 1985

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AIRCRAFT PROCUREMENT, ARMY

Section 1

Budget Appendix Extract

Language

Program and Financing Schedule

Object Classification Schedule

1-1 January 1983

APPROPRIATION LANGUAGE

For construction, procurement, production, ~~upgrade~~, modification and modernization of aircraft, equipment, including ordnance, ground handling equipment, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, without regard to section 4774, title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title as required by section 355, Revised Statutes, as amended; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes: \$2,506,572,000 of which \$10,000,000 shall be available only for procurement of C-12 cargo aircraft for the Army National Guard, \$3,472,100,000 to remain available for obligation until September 30, 1986. Provided, that notwithstanding any other provision of this Act, after the head of the agency concerned gives written notification of a proposed multiyear contract for the CH-47D Helicopter Modernization Program to the Committees on Armed Services and on Appropriations of the Senate and House of Representatives, such contract may not then be awarded until the end of a period of 45 days beginning on the date of such notification. (10 U.S.C. 2353, 2361, 3012, 4531-32; Department of Defense Appropriation Act, 1983; additional authorizing legislation to be proposed.).

1-2 January 1983

Army

Aircraft Procurement, Army

31 Jan 83

Program and Financing (in thousands of dollars)				Summary			
Identification code	21-2031-Q-1-051	Budget plan (amounts for procurement actions programmed)			Obligations		
		1982 actual	1983 est.	1984 est.	1982 actual	1983 est.	1984 est.
Program by activities:							
Direct:							
1.	Aircraft	1,138,252	1,806,406	1,844,700	1,062,508	1,342,180	2,014,604
2.	Modification of aircraft	451,438	369,372	333,300	475,809	398,840	559,019
3.	Spare and repair parts	250,648	446,800	849,400	204,121	488,224	808,557
4.	Support equipment and facilities	122,684	151,666	244,700	102,571	183,679	219,434
Total direct		1,962,932	2,487,072	3,472,100	1,865,009	2,412,923	3,330,114
Reimbursable program		289,874	119,600	102,000	226,364	139,328	106,086
10.0001	Total	2,252,806	2,606,672	3,574,100	2,091,373	2,552,251	3,436,170
Financing:							
Offsetting collections from:							
11.0001	Federal funds	-72,316	-98,000	-78,000	-74,280	-88,000	-78,000
13.0001	Trust funds	-209,828	-10,000	-24,000	-207,738	-20,000	-24,000
14.0001	Non-federal sources	-58			-109		
17.0001	Recoveries of prior year obligations(-)				-48,777		
Unobligated balance available, start of year:							
21.4001	For completion of prior year budget plans				-226,747	-419,346	-478,167
21.4002	Reprogramming from or to prior year budget plan	-21,888	9,600				
22.4001	Unobligated balance transferred from other accounts(-)		-8,600			-8,600	
24.4001	Unobligated balance available, end of year				419,346	478,167	618,097
25.0001	Unobligated balance lapsing	28,534			28,534		
39.0001	Budget authority	1,962,932	2,487,072	3,472,100	1,872,782	2,487,072	3,472,100
Budget authority:							
40.0001	Appropriation	1,911,100	2,506,572	3,472,100	1,911,100	2,506,572	3,472,100
40.0002	Reduction pursuant to P.L. 97-377		-17,500			-17,500	
41.0001	Transferred to other accounts(-)		-2,000			-2,000	
42.0001	Transferred from other accounts	48,286			48,286		
43.0001	Appropriation (adjusted)	1,959,386	2,487,072	3,472,100	1,959,386	2,487,072	3,472,100
50.0001	Reappropriation	13,396			13,396		
Relation of obligations to outlays:							
71.0001	Obligations incurred, net				1,799,278	2,434,851	3,330,170
72.4001	Obligated balance, start of year				1,959,748	2,028,442	3,027,293
74.4001	Obligated balance, end of year				-2,028,442	-3,027,293	-2,922,963
77.0001	Adjustments in expired accounts				7,710		
78.0001	Adjustments in unexpired accounts				-48,777		
90.0001	Outlays				1,238,518	1,436,000	2,388,500

1-3 January 1983

Army

Aircraft Procurement, Army

31 Jan 83

Object Classification (in thousands of dollars)		Summary		
Identification code	21-2031-0-1-051	1982 actual	1983 est	1984 est
Direct obligations:				
Other services:				
125.004	Other	543,305	780,423	979,311
126.001	Supplies and materials	126,771	177,432	227,107
131.001	Equipment	1,184,933	1,475,068	2,129,698
199.001	Total direct obligations	1,855,009	2,412,923	3,330,114
Reimbursable obligations:				
Other services:				
225.004	Other	66,478	27,280	41,368
226.001	Supplies and materials	15,512	6,361	9,652
231.001	Equipment	144,393	106,307	55,038
299.001	Total reimbursable obligations	226,384	139,928	106,058
999.901	Total obligations	2,081,393	2,552,851	3,436,170

1-4 January 1983

Army

Aircraft Procurement, Army

31 Jan 83

Program and Financing (in thousands of dollars)

1983 Fiscal year program

Identification code	21-2031-0-1-051	Budget plan (amounts for procurement actions programmed)			Obligations			
		1982 actual	1983 est.	1984 est.	1982 actual	1983 est.	1984 est.	
Program by activities:								
Direct:								
	1. Aircraft				4,000			
	2. Modification of aircraft				30,944			
	3. Spares and repair parts				4,410			
	4. Support equipment and facilities				2,482			
	Total direct				42,246			
	Reimbursable program				2,393			
10.0001	Total				44,639			
Financing:								
Offsetting collections from:								
11.0001	Adjustment to prior year federal fund orders				1,727			
13.0001	Adjustment to prior year trust fund orders				232			
14.7001	Adjustment to non-federal sources				-28			
17.0001	Recoveries of prior year obligations(-)				-12,192			
Unobligated balance available, start of year:								
21.4001	For completion of prior year budget plans				-49,614			
21.4002	Reprogramming from or to prior year budget plan	-18,298						
25.0001	Unobligated balance lapsing	18,298						
40.0001	Budget authority							

1-5 January 1983

A-My

Aircraft Procurement, Army

31 Jan 83

Program and Financing (in thousands of dollars)

1981 Fiscal year program

Identification code	21-2031-0-1-051	Budget plan (amounts for procurement actions programmed)			Obligations		
		1982 actual	1983 est.	1984 est.	1982 actual	1983 est.	1984 est.
Program by activities:							
Direct:							
1.	Aircraft				27,327	17,200	
2.	Modification of aircraft				45,222	29,150	
3.	Spares and repair parts				19,816	50,806	
4.	Support equipment and facilities				8,950	12,837	
	Total direct				101,115	89,993	
	Reimbursable program				7,957	9,497	
10.0001	Total				109,072	99,490	
Financing:							
Offsetting collections from:							
11.0001	Adjustment to prior year federal fund orders				2,808		
13.0001	Adjustment to prior year trust fund orders				1,982		
14.0001	Adjustment to non-federal sources				-14		
17.0001	Recoveries of prior year obligations(-)				-36,505		
21.4001	Unobligated balance available, start of year				-176,133	-89,993	
24.4001	Unobligated balance available, end of year				99,490		
40.0001	Budget authority						

1-6 January 1983

Army

Aircraft Procurement, Army

31 Jan 83

Program and Financing (in thousands of dollars)

1982 Fiscal year program

Identification code	21-2031-0-1-051	Budget plan (amounts for procurement actions programmed)			Obligations			
		1982 actual	1983 est.	1984 est.	1982 actual	1983 est.	1984 est.	
Program by activities:								
Direct:								
1.	Aircraft	1,136,266			1,031,151	48,843	57,244	
2.	Modification of aircraft	451,466			399,649	28,271	22,574	
3.	Spares and repair parts	260,646			184,096	34,349	12,202	
4.	Support equipment and facilities	105,584			95,729	22,868	6,260	
	Total direct	1,953,962			1,711,625	106,048	98,300	
	Reimbursable program	266,804			218,086	86,333	14,376	
10.0001	Total	2,220,766			1,929,711	192,381	112,676	
Financing:								
Offsetting collections from:								
11.0001	Federal funds	-78,618			-78,618			
13.0001	Trust funds	-209,839			-209,839			
14.0001	Non-federal sources	-58			-58			
	Unobligated balance available, start of year							
21.4001	For completion of prior year budget plans					-320,487	-112,676	
21.4002	Reprogramming from or to prior year budget plan	-6,400	6,600					
22.4001	Unobligated balance transferred from other accounts(-)		-6,600			-6,600		
24.4001	Unobligated balance available, end of year				320,487	112,676		
25.0001	Unobligated balance lapsing	13,396			13,396			
39.0001	Budget authority	1,872,782			1,872,782			
Budget authority:								
40.0001	Appropriation	1,811,100			1,811,100			
42.0001	Transferred from other accounts	49,296			49,296			
43.0001	Appropriation (adjusted)	1,969,366			1,969,366			
50.0001	Reappropriation	13,396			13,396			

1-7 January 1983

Army

Aircraft Procurement, Army

31 Jan 83

Program and Financing (in thousands of dollars)

1983 Fiscal year program

Identification code	21-2031-L-1-051	Budget plan (amounts for procurement actions program)			Obligations			
		1982 actual	1983 est.	1984 est.	1982 actual	1983 est.	1984 est.	
Program by activities:								
Direct:								
1.	Aircraft	1,508,900			1,278,137	114,303		
2.	Modification of aircraft	360,372			340,418	38,421		
3.	Spare and repair parts	448,200			403,370	40,005		
4.	Support equipment and facilities	151,600			148,857	258		
	Total direct	2,469,072			2,169,782	192,987		
	Reimbursable program	118,000			72,098	44,250		
10.0001	Total	2,608,072			2,239,881	235,237		
Financing:								
Offsetting collections from:								
11.0001	Federal funds	-98,000			-98,000			
13.0001	Trust funds	-20,000			-20,000			
21.4001	Unobligated balance available, start of year					-365,481		
24.4001	Unobligated balance available, end of year					365,481		
39.0001	Budget authority	2,469,072			2,469,072			
Budget authority:								
40.0001	Appropriation	2,506,572			2,506,572			
40.0G03	Reduction pursuant to P.L. 97-377	-17,800			-17,800			
41.0001	Transferred to other accounts	-2,000			-2,000			
43.0001	Appropriation (adjusted)	2,469,072			2,469,072			

1-8 January 1983

Army

Aircraft Procurement, Army

31 Jan 83

		Program and Financing (in thousands of dollars)			1984 Fiscal year program		
Identification code	21-2031-0-1-031	Budget plan (amounts for procurement actions programmed)			Obligations		
		1982 actual	1983 est.	1984 est.	1982 actual	1983 est.	1984 est.
Program by activities:							
Direct:							
1.	Aircraft			1,844,700			1,843,257
2.	Modification of aircraft			803,900			830,024
3.	Spare and repair parts			649,400			454,450
4.	Support equipment and facilities			244,700			213,096
Total direct				3,472,100			3,040,827
Reimbursable program				102,000			47,430
10.0001	Total			3,574,100			3,088,257
Financing:							
Offsetting collections from:							
11.0001	Federal funds			-78,000			-78,000
13.0001	Trust funds			-24,000			-24,000
24.4001	Unobligated balance available, end of year						485,843
40.0001	Budget authority			3,472,100			3,472,100

1-9 January 1983

AIRCRAFT PROCUREMENT, ARMY

Section 4

Budget Activity Justifications

Activity 1 - Aircraft

Activity 2 - Modification

Activity 3 - Spares and Repair Parts

Activity 4 - Support Equipment and Facilities

1-10 January 1983

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation Aircraft Procurement, Army			FY 1984 Budget
Program or Budget Project Account Budget Program - Activity 1, Aircraft.	(Thousands of Dollars)			
	Actual	Estimate	Estimate	Estimate
	FY 1982	FY 1983	FY 1984	FY 1985
Direct Obligation or Direct Budget Plan	1,138,268	1,506,900	1,944,700	2,020,500
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for procurement and manufacture of airplanes, helicopters, and associated aircraft armament and avionics equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)
 FY 1984 FY 1985
\$26,100 \$55,300

RC-12D GUARDRAIL Reconnaissance Airplane - (P-1 Line Item 3).

\$26.1 million is requested in FY84 for procurement of a ground processing center for the third Improved GUARDRAIL V system. These ground processing centers receive data from the RC-12D reconnaissance airplanes to provide the supported commanders at Division and Corps level with real time intelligence information. The RC-12D is a twin-engine, turboprop airplane equipped with a signal intelligence system which intercepts, locates, and classifies target signals. \$55.3 million is requested in FY85 for procurement of 6 RC-12D GUARDRAIL reconnaissance airplanes for the fourth Improved GUARDRAIL V system.

1-11 January 1983

(\$ in Thousands)	
FY 1984	FY 1985
\$154,800	\$211,200

EH-60A QUICK FIX Electronic Helicopter (Multiyear Procurement) - (P-1 Line Items 5 and 6).

\$122.8 million is requested in FY84 for procurement of 12 EH-60A QUICK FIX helicopters. \$32.0 million is also requested for advance procurement of long leadtime engines and airframe components required to support the FY85 production. QUICK FIX utilizes the BLACK HAWK airframe to employ on-board jammers for Electronic Warfare (EW) designed to identify, locate, listen, and disrupt enemy command and control communications. \$166.2 million is requested in FY85 for procurement of 18 EH-60A QUICK FIX helicopters. In addition, \$45.0 million is requested for advance procurement of long leadtime engines and airframe components required to support the FY86 production. The Army initiated Multiyear Procurement (MYP) in FY82 for the BLACK HAWK. The EH-60A utilizes the BLACK HAWK airframe and is included in the BLACK HAWK MYP.

(\$ in Thousands)	
FY 1984	FY 1985
\$1,297,500	\$1,220,800

AH-64 APACHE Attack Helicopter - (P-1 Line Items 7 and 8).

\$1,219.3 million is requested for the procurement of 112 AH-64 APACHE attack helicopters in FY84. In addition, \$78.2 million is requested for advance procurement of long leadtime items required to support the FY85 production. The APACHE is a twin-engine, two-place, fully integrated anti-armor weapon system capable of destroying tanks and other armored vehicles under day/night and adverse weather conditions. The aircraft employs the HELLFIRE (laser seeker) anti-tank missile. Target acquisition and guidance are accomplished by the Target Acquisition and Designation Sight (TADS) that will provide extremely accurate fires with high first round hit probability. The mobility and flexibility of the system coupled with its immediate responsiveness and integration with the ground command will provide the balance required to help defeat the Warsaw Pact threat and be a key member of the Rapid Deployment Force (RDF). \$1,159.9 million is requested in FY85 for procurement of 144 AH-64 APACHE Attack Helicopters. In addition, \$60.9 million is requested for advance procurement of long leadtime items including engines, transmissions, and mission equipment required to support the FY86 production.

1-12 January 1983

(\$ in Thousands)

<u>FY 1984</u>	<u>FY 1985</u>
\$466,300	\$520,000

UH-60A BLACK HAWK (Multiyear Procurement) - (P-1 Line Items 9 and 10).

\$332.4 million is requested for procurement of 84 UH-60A BLACK HAWK helicopters in FY84. In addition, \$133.9 million is requested for advance procurement of long leadtime items and engines required to support the FY85 production. This utility helicopter is the Army's first true squad carrying helicopter and is powered by two T-700 engines. The BLACK HAWK will modernize the Army's utility helicopter fleet. It will enhance tactical mobility with increased speed, lifting capacity, range, reliability, availability, maintainability, and survivability at reduced overall operating costs. The Army initiated Multiyear Procurement (MYP) for the BLACK HAWK in FY82. \$359.1 million is requested in FY85 for procurement of 78 UH-60A BLACK HAWK helicopters. In addition, \$160.9 million is requested for advance procurement of long leadtime engines and airframe components required to support the FY86 production. Multiyear Procurement of the BLACK HAWK airframe is requested in FY85 as a follow-on to the highly successful original MYP.

(\$ in Thousands)

<u>FY 1984</u>	<u>FY 1985</u>
\$ -	\$13,200

Joint Surveillance Target Attack Radar (JOINT STAR)- (P-1 Line Item 11).

\$13.2 million is requested by FY85 for long leadtime items in the ground station and airborne radar procurement. Joint STAR is an airborne moving target indicator (MTI) radar system which will have ground stations located in both the Division and the Corps. It is a joint Army and Air Force program.

1-13 January 1983

Department of the Army Annual Budget Estimates		Appropriation Aircraft Procurement, Army		FY 1984
JUSTIFICATION		Budget		
Program or Budget Project Account	(Thousands of Dollars)			
Budget Program - Activity 2, Aircraft Modifications.	Actual	Estimate	Estimate	Estimate
	FY 1982	FY 1983	FY 1984	FY 1985
Direct Obligation or Direct Budget Plan	451,488	380,372	633,300	738,500
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for modification of items and upgrade of equipment procured by the Aircraft Procurement, Army appropriation, including modification kits. It excluded installation unless the item is furnished to a manufacturer, who provides parts and labor under a single contract (excluding normal GFE). This results in an end item reconfigured to a new series designation or new operational capability.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)	
FY 1984	FY 1985
\$45,800	\$20,900

OV-1 MOHAWK Surveillance Airplane - (P-1 Line Item 12).

\$45.8 million is requested in FY84 for modernization of the OV-1B aircraft to a standard OV-1D configuration and other modifications. This configuration accepts the palletized and improved infrared (IR) and side looking airborne radar (SLAR) packages. Other FY 84 modifications include the UPD-7 data link, the continuous wave (CW) radar jammer, and provisions for secure voice. \$20.9 million is requested in FY85 to continue the OV-1B to OV-1D conversion for total force modernization and improved operational capability. Other FY 85 modifications include the CW radar jammer and stall warning system.

1-14 January 1983

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$7,500	\$28,100

RC-12D Reconnaissance Airplane - (P-1 Line Item 13).

\$7.5 million is requested in FY84 for RC-12D GUARDRAIL modifications. This funding will continue the improved GUARDRAIL conversion and procure the continuous wave (CW) radar jammer. \$28.1 million is requested in FY85 to complete the improved GUARDRAIL conversion and modify RC-12D aircraft with required aircraft survivability equipment. Other FY85 modifications include the CW radar jammer, missile detector, and radar jammer.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$4,000	\$2,700

RV-1 Reconnaissance Airplane - (P-1 Line Item 14).

\$4.0 million is requested in FY84 for modifications including provisions for secure voice and the continuous wave (CW) radar jammer. \$2.7 million is requested in FY85 for required aircraft survivability equipment to allow the RV-1 QUICKLOOK aircraft to perform its mission and modifications including the missile detector and stall warning system. The RV-1D provides increased performance and capability resulting from new electronic countermeasures and surveillance system employed at Corps level.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$26,300	\$16,500

AH-1 COBRA-TOW Attack Helicopter (Multiyear Procurement) - (P-1 Line Item 15).

\$26.3 million is requested in FY84 for the AN/AIQ-136 Radar Jammer (multiyear procurement) and the AN/AVR-2 Laser Warning Receiver. \$16.5 million is requested in FY85 for the AN/AVR-2 Laser Warning Receiver, improved sand and particle dust separator, and other desert operations modifications.

1-15 January 1983

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$360,500	\$421,600

CH-47 CHINOOK Cargo Helicopter (Multiyear Procurement) - (P-1 Line Item 16).

\$360.5 million is requested in FY84 primarily for continuation of the CH-47D modernization program and for fleet modifications to convert the T-55-L-11D engine to the T-55-L-712 configuration. The CH-47 Modernization program includes improvements to the current CH-47A, B, C fleet to modernize it to the greatly improved CH-47D configuration. Modifications include new fiberglass rotor blades; new engines, transmission and drive system; modularized hydraulics; electrical system; advanced flight control system; triple hook cargo system and an auxiliary power unit. These improvements increase the aircraft capability for lift and endurance and extends the useful life of the fleet beyond the year 2000. The features greatly enhance reliability, maintainability, productivity, survivability and safety of the Active Army's only medium-lift helicopter. \$421.6 million is requested in FY85 for continuing the modernization of the fleet to the improved CH-47D configuration. It also continues the modification program to convert the T-55-L-11D engine to the T-55-L-712 configuration and also funds desert operation modifications for upper control bearing, engine, and airframe improvements. This program is a multiyear procurement candidate beginning in FY83. Upon completion of negotiations, the multiyear decision will be made and appropriate notification will be furnished to the Congress.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$200	\$ -

C-12 Cargo Airplane (Mods) - (P-1 Line Item 17).

\$.2 million is requested in FY84 for PT 6A-38 to PT-41 Engine Conversion, and automatic feathering and synchronization modification to increase aircraft performance and safety.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$400	\$ -

EH-1 Electronic Helicopter - (P-1 Line Item 18).

\$.4 million is requested in FY84. Funds are required for non recurring engineering and contractor provisioning of final integrated logistic support of the EH-1X. Key personnel training for full release will also be completed in FY84.

1-16 January 1983

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$2,600	\$ -

OH-58 Observation Helicopter - (P-1 Line Item 20).

\$2.6 million is requested in FY84 for improved Frequency Modulation (FM) communication amplifiers. The improved FM amplifiers will be used to improve helicopter FM radios to provide reliable air-to-air and air-to-ground communications for helicopters operating in the nap-of-the-earth (NOE) environment - within the folds of the earth, behind hills and foliage to reduce detection and vulnerability from threat air defense systems. Present FM radios do not have the capability to operate reliably and at required ranges in this environment.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$ -	\$16,900

UH-1 Mods - (P-1 Line Item 21).

\$16.9 million is requested in FY85 to initiate a preplanned product improvement on the UH-1 aircraft fleet. The improvements will be primarily avionics, aviation life support equipment, and limited airframe improvements such as composite main rotor blades and a new engine deck. With these improvements to the UH-1 fleet, the aircraft will be supportable through the year 2000.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$ 100	\$100

UH-60A Mods - (P-1 Line Item 22).

\$1 million is requested in both FY84 and FY85 to begin retrofit of fielded UH-60 BLACK HAWKS with provisions to accommodate the External Stores Support System (ESSS) which provides the Army with self-deployment and extended range capability in support of the Rapid Deployment Force mission.

1-17 January 1983

(\$ in Thousands)	
FY 1984	FY 1985
\$177,000	\$218,680

Army Helicopter Improvement Program (AHIP) - (P-1 Line Item 23).

\$177.0 million is requested in FY84 for modification line tooling, exercise of the first option to modify 16 OH-58A airframes to the OH-58D (AHIP) configuration. This request also includes ground support equipment and advance procurement for modification of 44 OH-58A airframes in FY85. Modification of the OH-58A includes the addition of a Mast-Mounted Sight (MMS) to achieve a day, night, adverse weather target acquisition and designation capability, an integrated cockpit with improved communications and navigation equipment, a more powerful engine, redesign of the main transmission and tail rotor drive train, and the installation of a composite, four bladed main rotor system and composite tail rotor. Advance procurement includes transmission components, gearboxes, main rotor masts, material for main rotor blades, electrical components, castings, forgings, bearings, hydraulic actuators, sensors, microelectronic parts, engines, and avionics. The AHIP will provide commanders with a significantly improved scout helicopter to conduct command and control, reconnaissance, surveillance, security and target acquisition/designation functions under day, night, and adverse weather conditions. \$218.7 million is requested in FY85 for exercise of the second option to modify 44 OH-58A airframes to the OH-58D (AHIP) configuration and for ground support equipment and advance procurement for modification of 56 OH-58A airframes in FY86.

(\$ in Thousands)	
FY 1984	FY 1985
\$3,700	\$8,100

Airborne Avionics - (P-1 Line Item 24).

\$3.7 million is requested in FY84 for airborne avionics modifications including radar altimeter, ASN-128 antenna, upgrade of TRN-30 and APX-100, and RT-1354 Front Panel. \$8.1 million in FY85 continues product improvement programs as follows: Solid State Radar, ASN-128 antenna, upgrade of APX-100, and RT-1354 Front Panel.

1-18 January 1983

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$200	\$ -

Modification: less than \$900 thousand - (P-1 Line Item 25).

\$.2 million is requested in FY84 for Probe Height Sensor modification.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$5,000	\$4,900

Aircraft 9WW - (P-1 Line Item 26).

\$5.0 million is requested in FY84 and \$4.9 million in FY85 for specialized aviation of a classified nature.

1-19 January 1983

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation Aircraft Procurement, Army			FY 1984 Budget
Program or Budget Project Account	(Thousands of Dollars)			
Budget Program - Activity 3, Spares and Repair Parts.	Actual	Estimate	Estimate	Estimate
	FY 1982	FY 1983	FY 1984	FY 1985
Direct Obligation or Direct Budget Plan	250,646	448,200	649,400	643,900
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for procurement of depot reparable spares and repair parts including provisioning (initial issue), replenishment, mobilization reserve, and avionics spares.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)
 FY 1984 FY 1985
 \$649,400 \$643,900

Spares and Repair Parts - (P-1 Line Item 27).

Initial Provisioning: \$259.8 million is requested in FY84 and \$299.3 million in FY85 to provide for procurement of spares and repair parts to support initial fielding of new principal items or modifications of principal items. Spares are an integral part of the development of any aircraft system (new procurement or modification). Initial spares are ordered against the major item development and procurement schedule and must meet required deliveries to preclude grounding the system for lack of spare parts. The initial fielding period normally extends until sufficient experience has been accumulated to permit changeover to replenishment procedures. Aircraft end items supported in FY84 are: (\$ millions)

AH-64	\$168.1	OV-1	3.7	Safety-of-Flight	2.0
UH-60A	4.3	RV-1	.4	Army Helicopter Improvement Program	14.2
EH-60A	10.1	AH-1S	7.0	Ground Support Equipment	.4
RC-12D	6.9	CH-47	28.7	Night Vision Goggles	4.0

1-20 January 1983

Replenishment Spares: \$389.6 million is requested in FY84 for procurement of replenishment spares (\$314.6 million) and war reserve spares (\$75.0 million). Replenishment spares support the system after initial fielding and provides spares and repair parts in concert with the Army's flying hour program. \$344.6 million is requested in FY85.

1-21 January 1983

Department of the Army Annual Budget Estimates	Appropriation			FY 1984
	Aircraft Procurement, Army			
JUSTIFICATION				Budget
Program or Budget Project Account	(Thousands of Dollars)			
Budget Program - Activity 4, Support Equipment and Facilities	Actual	Estimate	Estimate	Estimate
	FY 1982	FY 1983	FY 1984	FY 1985
Direct Obligation or Direct Budget Plan	125,594	151,600	244,700	304,900
Direct Obligation				

Section 1 - PURPOSE AND SCOPE

Provides for avionics support equipment including communication equipment and night vision goggles; for common ground equipment including tool sets, shop sets and components thereof, ground handling/servicing equipment, special test and diagnostic equipment, flight simulators and training devices; for industrial facilities including Provision of Industrial Facilities (PIF), Depot Maintenance Plant Equipment (DMPE), and Manufacturing Methods and Technology (MMT); and for war consumables including 2.75 inch rocket lightweight launchers.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

(\$ in Thousands)	
FY 1984	FY 1985
\$35,700	\$52,600

Avionics Support Equipment - (P-1 Line Item 28).

\$35.7 million is requested in FY84 as follows: \$7.4 million for other communication equipment and \$28.3 million for 1200 aviation night vision goggles. \$52.6 million is requested in FY85 as follows: \$24.5 million for other communication equipment and \$28.1 million for 1200 aviation night vision goggles.

1-22 January 1983

(\$ in Thousands)	
FY 1984	FY 1985
\$176,300	\$171,800

Common Ground Equipment - (P-1 Line Item 29).

\$176.3 million is requested in FY84 for procurement of Sets, Kits, Outfits; Aviation Ground Support Equipment; Flight Simulators; and individual items that cost less than \$.9 million. Sets, Kits, Outfits are required to fill shortages, replace obsolete equipment and implement the three level maintenance concept (\$5.8 million). Aviation Ground Support Equipment provides for the acquisition of self-propelled crane, Aviation Ground Power Unit, aircraft maintenance trailer, self propelled elevating maintenance stand and vibration monitor sets (\$14.9 million). Funds are requested to procure one AH-1S Flight/Weapons Simulator to provide training at high density units on a cost effectiveness basis, (\$32.6 million); one CH-47D Flight Simulator and convert 3 fielded C model to D configuration (\$34.2 million); three UH-60 Flight Simulators, (\$46.3 million); and long lead items to begin the production of two AH-64 combat mission simulators in FY85 (\$28.9 million); and Aviation Training Equipment (\$8.4 million) for four pilot night vision sensor (PNVS) surrogate aircraft for the AH-64 pilot program at the Aviation Training Center, Fort Rucker, AL. Individual items costing less than \$.9 million are test equipment for maintenance of avionics, airborne surveillance and air traffic control hardware (\$5.2 million).

\$171.8 million is requested in FY85 as follows: Sets, Kits, Outfits; Aviation Ground Support Equipment; Flight Simulators; and individual items costing less than \$.9 million. Sets, Kits, Outfits include aviation unit and intermediate maintenance shop sets, maintenance shelters to provide urgently needed equipment to fill the 3 level maintenance system (\$8.8 million). Aviation Ground Support Equipment include hydraulic test stands, Aviation Ground Power Units, and engine adapter assembly (\$15.0 million). The AH-1 Flight Simulator provides visual, tactical weapons training, and instrument flight simulation capable of independent or integrated crew training (2 for \$35.7 million). The Army will procure 2 UH-60 flight simulators in FY85, the second year of a three year contract (\$36.7 million). The AH-64 Combat Mission Simulator requires funds to begin production in FY85 (2 for \$63.8 million) to coincide with fielding the AH-64 helicopter. \$6.1 million is requested in FY85 for the CH-47 Flight Simulator to complete the C to D conversion program. Individual items costing less than \$.9 million are test equipment for maintenance of avionics, airborne surveillance and air traffic control hardware (\$5.7 million).

1-23 January 1983

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$30,200	\$76,900

Industrial Facilities - (P-1 Line Item 30).

\$30.2 million is requested in FY84 for Industrial Facilities in support of the Army Aviation Program. It includes \$11.4 million for Manufacturing Methods and Technology Program (MM&T). MM&T request will allow for Industrial Productivity Investments at Martin Marietta, Hughes, and AVCO Lycoming. Improved methods for manufacturing gas turbine engines continues with emphasis on turbine blades and compressor components. The Provision of Industrial Facilities (PIF) request of \$14.3 million provides for rehabilitating real property and industrial plant equipment at the Stratford, CT Army Engine Plant (AVCO Lycoming), CH-47 test stand upgrades, and other projects. Depot Maintenance Plant Equipment (DMPE) request of \$4.5 million provides for facilitization of Corpus Christi, TX Army Depot to establish overhaul capability for CH-47D helicopters. It establishes maintenance capability for TOW/COBRA at Anniston, AL and Pirmasens, Germany. \$76.9 million is requested in FY85 as follows: \$18.9 million for PIF, \$31.6 million for DMPE, and \$26.4 million for MM&T.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$2,500	\$3,600

War Consumables - (P-1 Line Item 31).

\$2.5 million is requested in FY84 and \$3.6 million in FY85 for 7 tube and 19 tube 2.75 inch Lightweight Rocket launchers to be used on the AH-1 COBRA/TOW and AH-64 attack helicopters. These launchers are required in order to fire the new family of 2.75 inch rockets with remote set fuzing options.

(\$ in Thousands)	
<u>FY 1984</u>	<u>FY 1985</u>
\$ -	\$ -

HELLFIRE Launchers - (P-1 Line Item 32).

Funding for the HELLFIRE Launchers has been incorporated into the AH-64 program (P-1 Line Item 7) commencing in FY84.

1-24 January 1983

AIRCRAFT PROCUREMENT, ARMY

Section 5

Comparison of Program Requirements and Financing

Comparison of FY 1983 program requirements as reflected in FY 1983 budget with FY 1983 program requirements as shown in FY 1984 budget.

Comparison in FY 1983 financing as reflected in FY 1983 budget with FY 1983 financing as shown in FY 1984 budget.

Comparison of FY 1982 program requirements as reflected in FY 1983 budget with FY 1982 program requirements as shown in FY 1984 budget.

Comparison of FY 1982 financing as reflected in FY 1983 budget with FY 1982 financing as shown in FY 1984 budget.

1-25 January 1983

COMPARISON OF FY 1983 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1983 BUDGET WITH
FY 1983 PROGRAM REQUIREMENTS AS SHOWN IN FY 1984 BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	Total Program Requirements Per FY 83 Budget	Program Requirements Per FY 1984 Budget	Increase (+) or Decrease (-)
Aircraft Procurement, Army			
Activity 1 - <u>Aircraft</u>	1,678,500	1,506,900	-171,600
Activity 2 - <u>Modification of Aircraft</u>	405,614	380,372	- 25,242
Activity 3 - <u>Spares and Repair Parts</u>	482,500	448,200	- 34,300
Activity 4 - <u>Support Equipment and Facilities</u>	179,300	151,600	- 27,700
TOTAL	2,745,914	2,487,072	-258,842

Explanation by Activity

Activity 1 - Aircraft - Net decrease is due to Congressional actions that decreased AH-64 (-\$66,500), UH-60A (-\$147,300), EH-60A (-7,900) and applied Independent Research and Development (IR&D) decrease (-\$13,800) to this Activity. These reductions were offset by Congressional increase to C-12 (+\$10,000) and AH-1S (+\$53,900).

Activity 2 - Modification of Aircraft - Net decrease is due to Congressional actions that decreased AH1P (-\$16,400), AH-1 (Undistributed reduction - \$3,200), OH-58 (-\$2,528), and applied IR&D (-\$3,700) to this Activity. The Army decreased RV-1 (-\$6,900) and increased EH-1 (+1,300), RC-12D (+\$200), 9WW classified program (+\$5,000) and CH-47 program (+\$986).

Activity 3 - Spares and Repair Parts - Net decrease is due to Congressional actions that decreased Replenishment Spares (-\$37,300) and increased AH-1 Initial Spares (+\$3,000).

Activity 4 - Support Equipment and Facilities - Net decrease is due to Congressional actions that transferred Manufacturing Methods and Technology in FY83 to the Army Research and Development appropriation (-\$9,200), decreased Common Ground Equipment (-\$15,000), and applied a decrease (-\$900) for Personnel Security Clearances. The Army decreased Avionics Support Equipment (-\$4,300), Industrial Facilities (-\$1,100), War Consumables (-\$1,300) and increased AH-1 Simulator (+\$3,000) and Sets, Kits and Outfits (+\$1,100).

1-26 January 1983

COMPARISON OF FY 1983 FINANCING AS REFLECTED
IN THE FY 1983 BUDGET WITH FY 1983 FINANCING
AS SHOWN IN FY 1984 BUDGET

(In Thousands of Dollars)			
Appropriation:	Financing Per FY 1983 Budget	Financing Per FY 1984 Budget	Increase (+) or Decrease (-)
Aircraft Procurement, Army			
Program Requirements, (Total)	2,856,314	2,605,072	-251,242
Program Requirements (Service Account)	(2,745,914)	(2,487,072)	(-258,842)
Program Requirements (Reimbursable)	(110,400)	(118,000)	(+ 7,600)
Less:			
Anticipated reimbursements	-110,400	-118,000	- 7,600
Reprogramming from prior year budget plans			
Unobligated balance available from prior year to finance new budget plans			
Unobligated balance transferred to other accounts			
Add:			
Unobligated balance transferred to other accounts			
Unobligated balance available to finance subsequent year budget plans			
	BUDGET AUTHORITY		
	2,745,914	2,487,072	-258,842
BUDGET AUTHORITY			
Appropriation	2,745,914	2,506,572	-239,342
Reduction pursuant to P.L. 97-377		- 17,500	- 17,500
Transfers from other accounts (-)		- 2,000	- 2,000
Appropriation (Adjusted)		2,487,072	

EXPLANATION OF CHANGES IN FINANCING

Net increase to Appropriation Budget Authority is due to Congressional actions taken on the FY83 Budget Request.

1-27 January 1983

COMPARISON OF FY 1982 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1983 BUDGET WITH
FY 1982 PROGRAM REQUIREMENTS AS SHOWN IN FY 1984 BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	Total Program Requirements	Program Requirements	Increase (+) or Decrease (-)
Aircraft Procurement, Army	Per FY 83 Budget	Per FY 1984 Budget	
Activity 1 - <u>Aircraft</u>	1,130,600	1,138,268	+7,668
Activity 2 - <u>Modification of Aircraft</u>	464,200	451,488	-12,712
Activity 3 - <u>Spares and Repair Parts</u>	223,300	250,646	+27,346
Activity 4 - <u>Support Equipment and Facilities</u>	118,000	125,594	+ 7,594
TOTAL	1,936,100	1,965,996	+29,896

Explanation

Activity 1 - Aircraft - Net increase is due to increase to UH-60A program for multiyear procurement (+\$16,168) offset by decreases to AH-64 (-\$6,500), AH-1 (-\$1,900), and C-12 (-\$100).

Activity 2 - Modification of Aircraft - Net decrease is due to below threshold decreases (-\$12,712) for various reprogramming actions.

Activity 3 - Spares and Repair Parts - Net increase is due to reprogramming action to increase replenishment spares (+\$22,546) and initial provisioning (+\$4,800).

Activity 4 - Support Equipment and Facilities - Net increase is due to below threshold increases to Avionics Support Equipment (+\$3,058), Common Ground Equipment (+\$5,446), and Industrial Facilities (+\$590) offset by decrease to War Consumables (-\$1,500).

1-28 January 1983

COMPARISON OF FY 1982 FINANCING AS REFLECTED
IN THE FY 1983 BUDGET WITH FY 1982 FINANCING
AS SHOWN IN FY 1984 BUDGET

(In Thousands of Dollars)			
Appropriation:	Financing Per FY 1983 Budget	Financing Per FY 1984 Budget	Increase (+) or Decrease (-)
Aircraft Procurement, Army			
Program Requirements, (Total)	2,296,300	2,254,800	-41,500
Program Requirements (Service Account)	(1,936,100)	(1,965,926)	(+29,896)
Program Requirements (Reimbursable)	(360,200)	(288,804)	(-71,396)
Less:			
Anticipated reimbursements	-360,200	- 288,804	-71,396
Reprogramming from prior year budget plans		- 6,600	- 6,600
Unobligated balance available from prior year to finance new budget plans			
Unobligated balance transferred to other accounts			
Add:			
Unobligated balance transferred to other accounts			
Unobligated balance lapsing		13,396	13,396
Unobligated balance available to finance subsequent year budget plans			
BUDGET AUTHORITY	1,936,100	1,972,792	+36,692
BUDGET AUTHORITY			
Appropriation	1,911,100	1,911,100	0
Transfers from other accounts	25,000	48,296	+23,296
Appropriation (Adjusted)	1,936,100	1,959,396	+23,296
Reappropriation		13,396	+13,396

EXPLANATION OF CHANGES IN FINANCING

Net increase to Appropriation Budget Authority is due to reprogramming action to increase spares and repair parts support.

1-29 January 1983

AIRCRAFT PROCUREMENT, ARMY

Section 8

Status of Aircraft Modification Programs

1-30 January 1983

Status of Aircraft Modification Program

FY 1982 Modification Programs

Programs as of 31 October 1982

<u>Program</u>	<u>Appropriated</u>	<u>Reprogramming</u>	<u>Total Program Value</u>	<u>Total Obligations</u>	<u>Total Disbursements</u>
Airplane, Surveillance, OV-1	18.5	+ 4.8	23.3	22.3	4.1
Airplane, Reconnaissance, RC-12D	53.5	+ 1.8	55.3	53.1	4.2
Airplane, Reconnaissance, RV-1	13.0	- 5.2	7.8	6.3	.7
Helicopter, Attack, AH-1S	65.8	-	65.8	58.4	.8
Helicopter, Cargo, CH-47	273.0	- 3.7	269.3	241.4	7.8
Airplane, Cargo, C-12	.8	- .6	.2	.2	-
Helicopter, Electronic, EH-1	4.6	- 1.4	3.2	2.6	.1
Helicopter, Observation, OH-58	1.8	+ .1	1.9	1.2	.6
Helicopter, Utility, UH-1	14.3	- 9.3	5.0	4.2	.7
Airborne Avionics	4.2	+ .4	4.6	3.8	.2
Aircraft 9WW	9.0	+ 1.0	10.0	5.5	4.1
Modifications under \$900,000	-	+ 2.0	2.0	1.2	-
UH-60A Mods	-	+ 2.0	2.0	2.0	.6
Helicopter, Observation, OH-6	-	+ 1.2	1.2	1.0	-

1-31 January 1983

AIRCRAFT PROCUREMENT, ARMY

Section 10

Flight Simulator Procurement Summary

1-32 January 1983

FY 84 BUDGET ESTIMATE

FLIGHT SIMULATORS PROCUREMENT PROGRAM

APPROPRIATION: Aircraft Procurement, Army

<u>System</u>	<u>Type</u>	<u>FY 83 & Prior Qty/Amount</u>	<u>FY 84 Qty/Amount</u>	<u>FY 85 Qty/Amount</u>	<u>FY 86 Qty/Amount</u>	<u>FY 87 Qty/Amount</u>	<u>FY 88 Qty/Amount</u>	<u>Cost to Complete Qty/Amount</u>	<u>Total Cost Qty/Amount</u>
UH-1 (SSNAA0980) (2B24)(SSNA09500)	FS	22/59.9	- -	- -	- -	- -	- -	- -	22/ 59.9
CH-47 (2B31)(SSNA09100)	FS	4/42.2	-/34.2	-/ 6.1	- -	- -	- -	- -	4/ 82.5
AH-1 (2B33)(SSNA09300)	FWS	5/97.3	1/32.6	2/35.7	- -	- -	- -	- -	8/165.6
UH-60 (2B38)(SSNA09400)	FS	- -	3/46.3	2/36.7	3/58.6	- -	- -	- -	8/141.6
AH-64 (2B40)(SSNA09000)	FWS	- -	-/28.9	2/63.8	2/71.9	- /18.3	- -	- -	4/182.9
GRAND TOTAL		199.4	142.0	142.3	130.5	18.3	- -	- -	632.5

1-33 January 1983